

# Acquisition and the CMMI<sup>SM</sup>

A Presentation to the  
1<sup>st</sup> Annual CMMI Technology Conference  
and User Group  
November 14, 2001

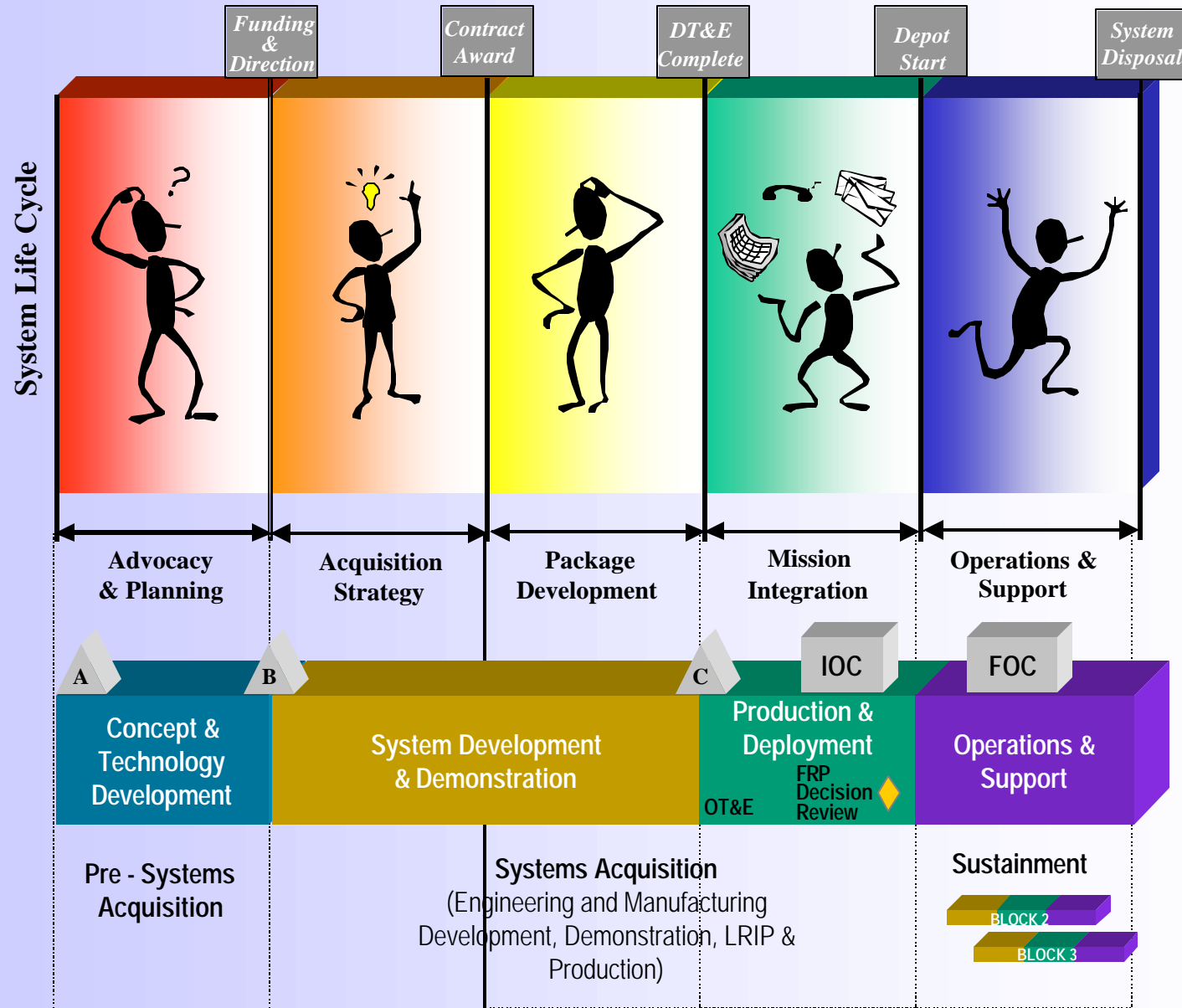
Panel 2 - Acquisition and the CMMI Model

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# Acquisition and the CMMI<sup>SM</sup>

- **The Life Cycle Stakeholders**
- **Spiral Development and the Life Cycle**
- **Spiral Development, Enterprise Focus & CMMI**
- **A Case for Process Sharing**

# DoD Program Life Cycle



# DoD Program Life Cycle Stakeholders

## Stakeholders

Certification

Congress

Contractor

Customer

Deployment

DOD Policy

Acquisition Agency

Experimentation

Industry

Legal / Contracting

Service HQ & JCS

Safety

Sustainment

Test

Training

User

	A	B	C	IOC	FOC
	Concept & Technology Development	System Development & Demonstration	Production & Deployment	Operations & Support	
		Pre-Award	Post-Award		
Certification				✓	
Congress	✓				
Contractor			✓		
Customer	✓	✓	✓		✓
Deployment				✓	
DOD Policy		✓			
Acquisition Agency	✓	✓	✓	✓	✓
Experimentation	✓				
Industry		✓			
Legal / Contracting		✓			
Service HQ & JCS	✓	✓			
Safety					✓
Sustainment			✓	✓	✓
Test			✓	✓	
Training				✓	✓
User	✓		✓	✓	✓



Must be involved

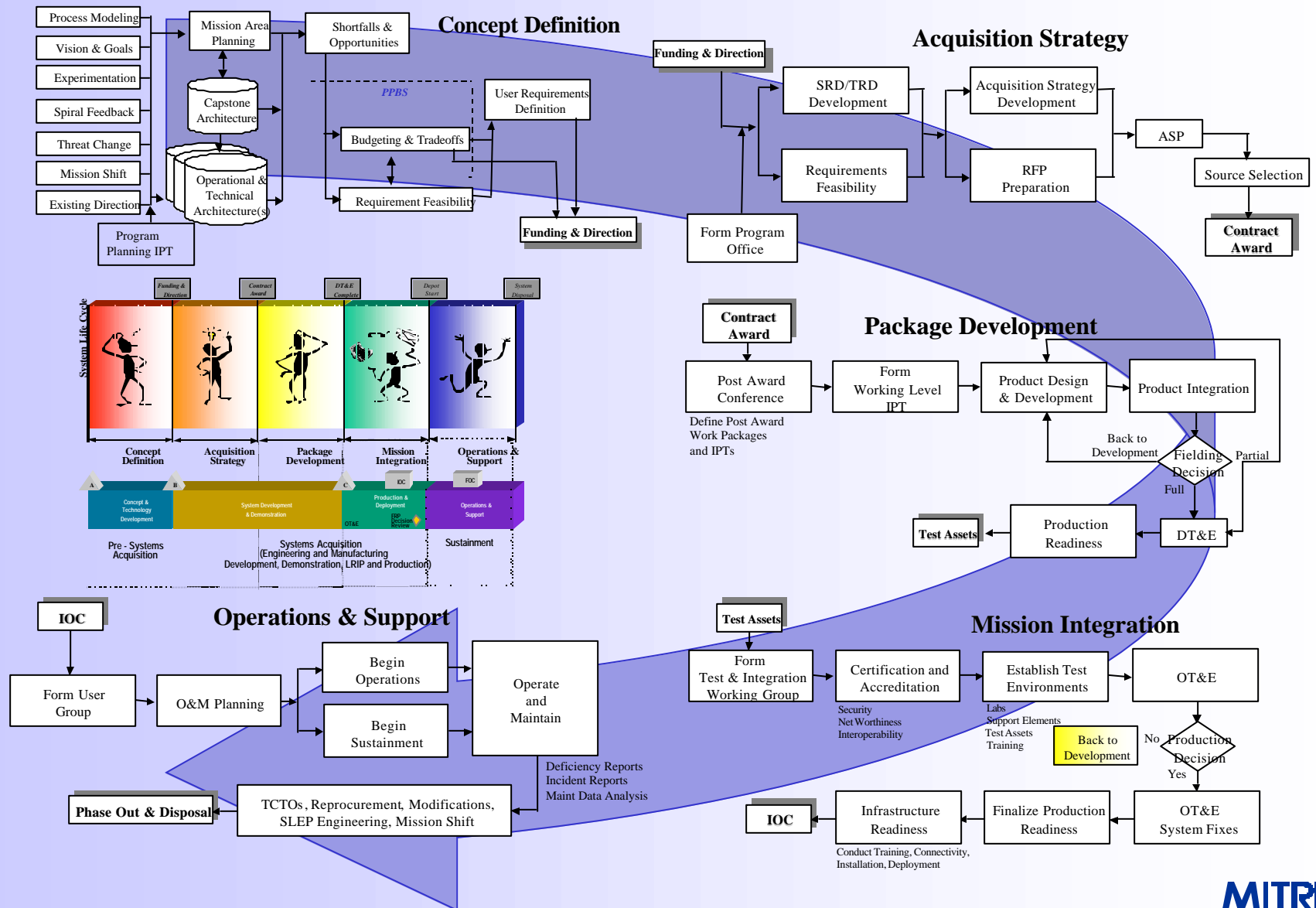


May be involved

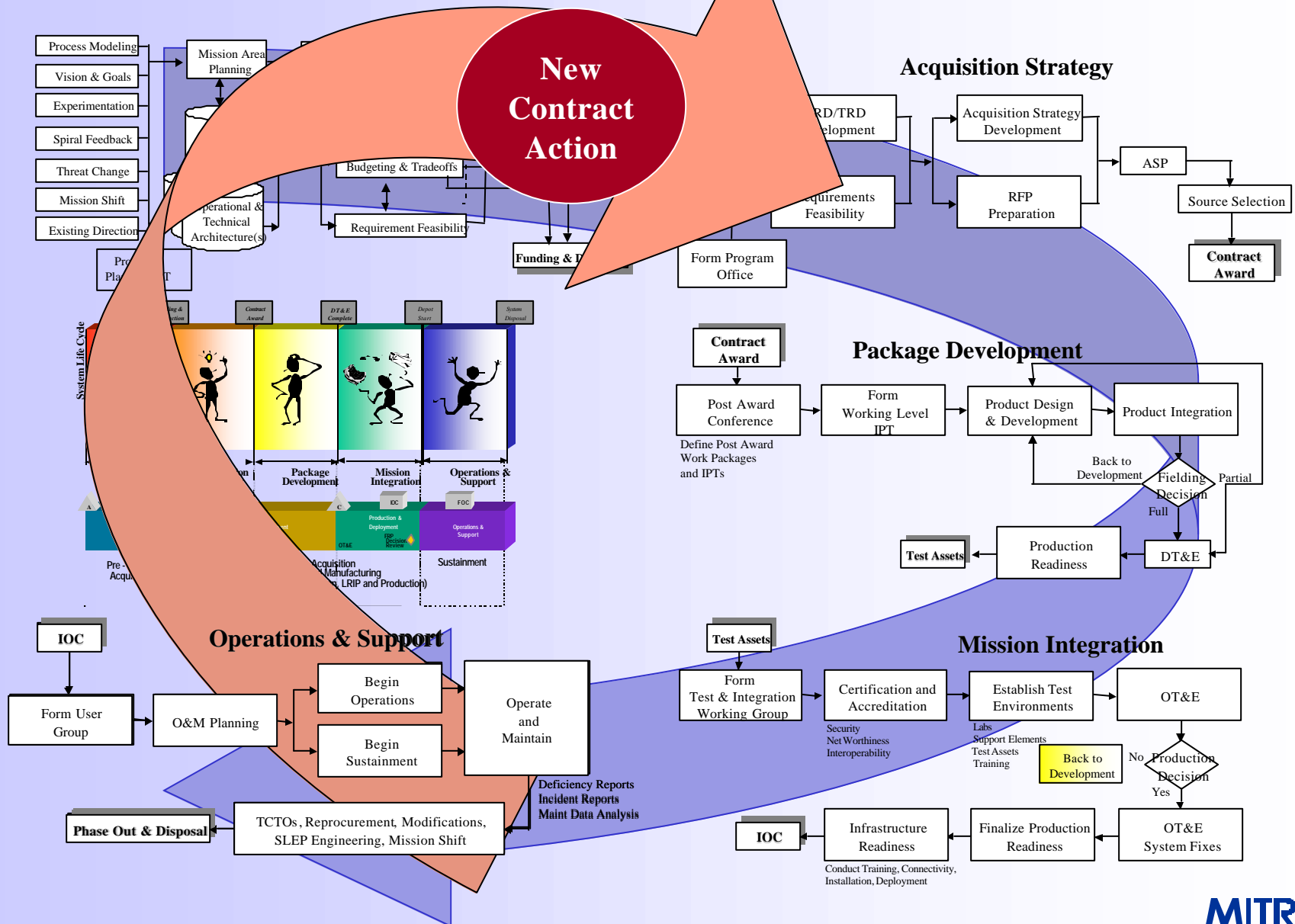
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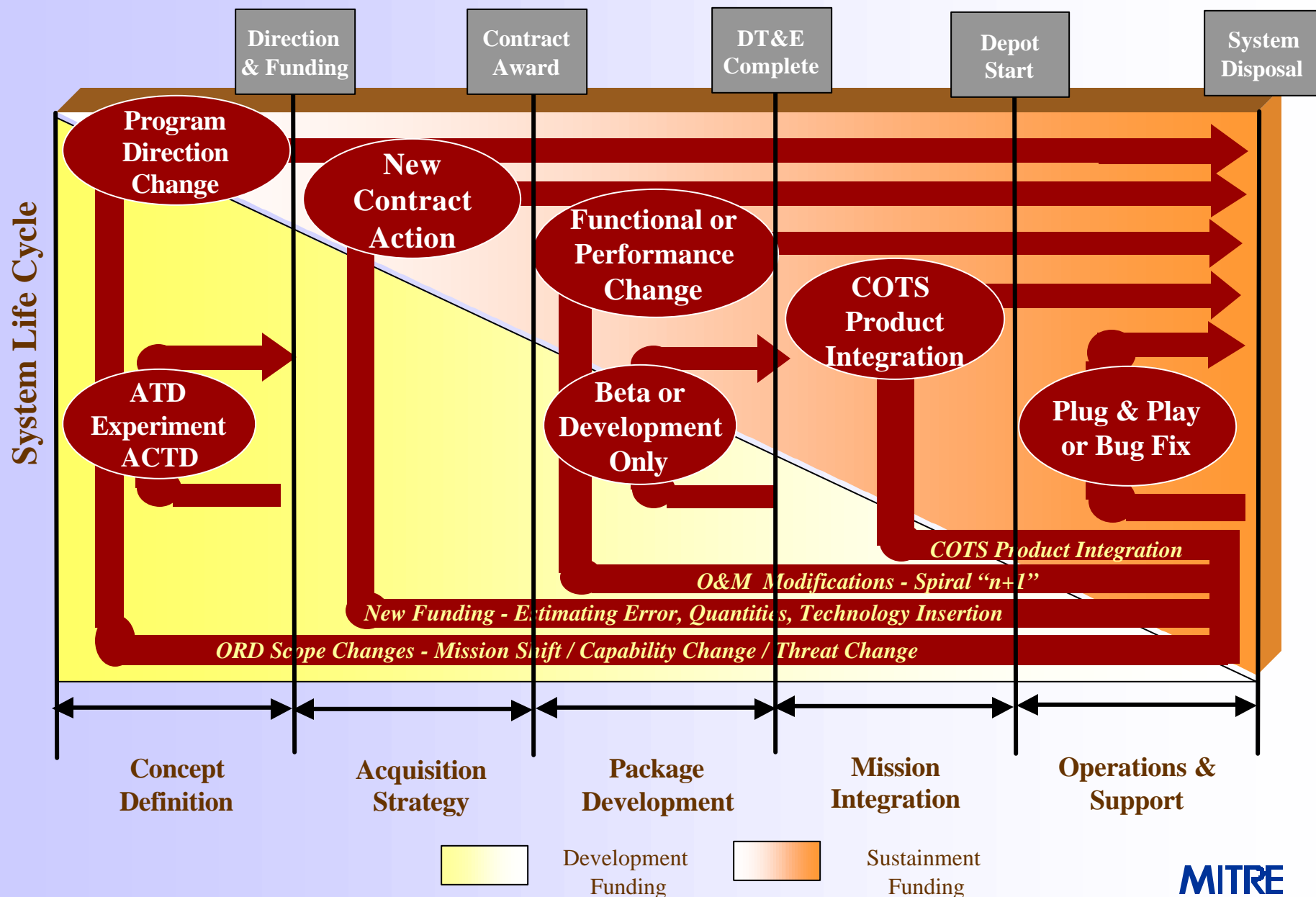
# A Serial Program Life Cycle



# One Type of Life Cycle Spiral



# A Potential Set of Life Cycle Spirals

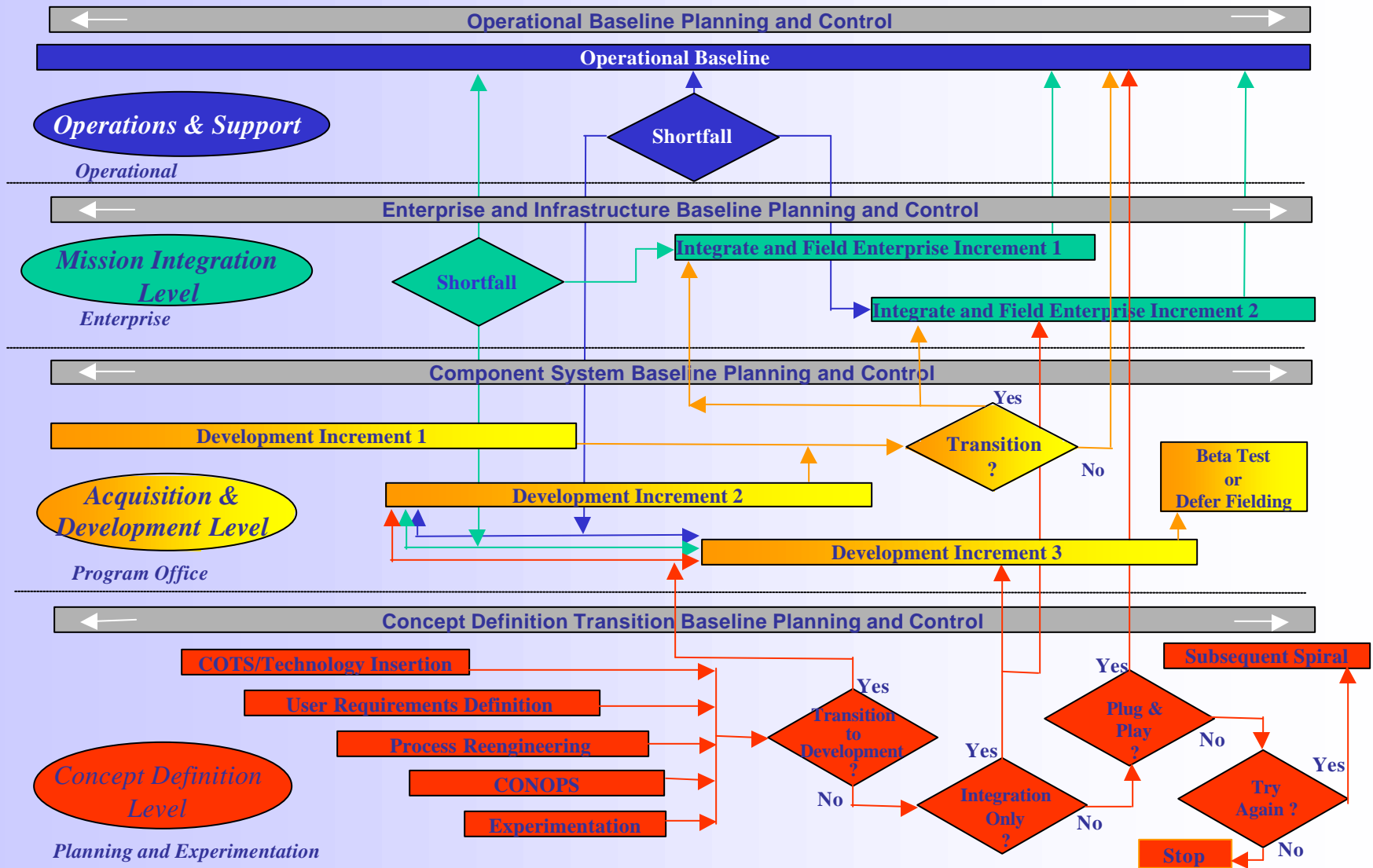




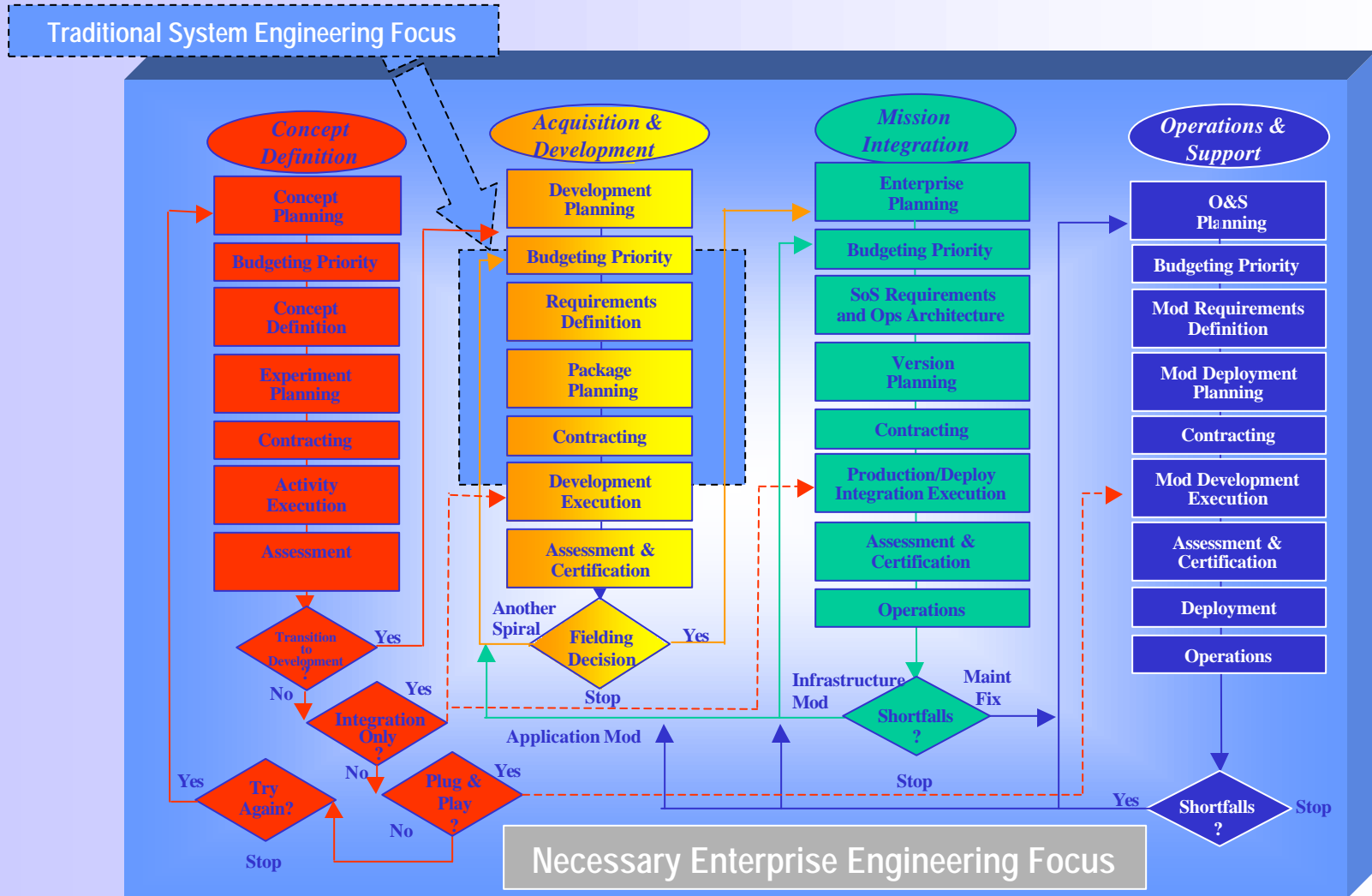
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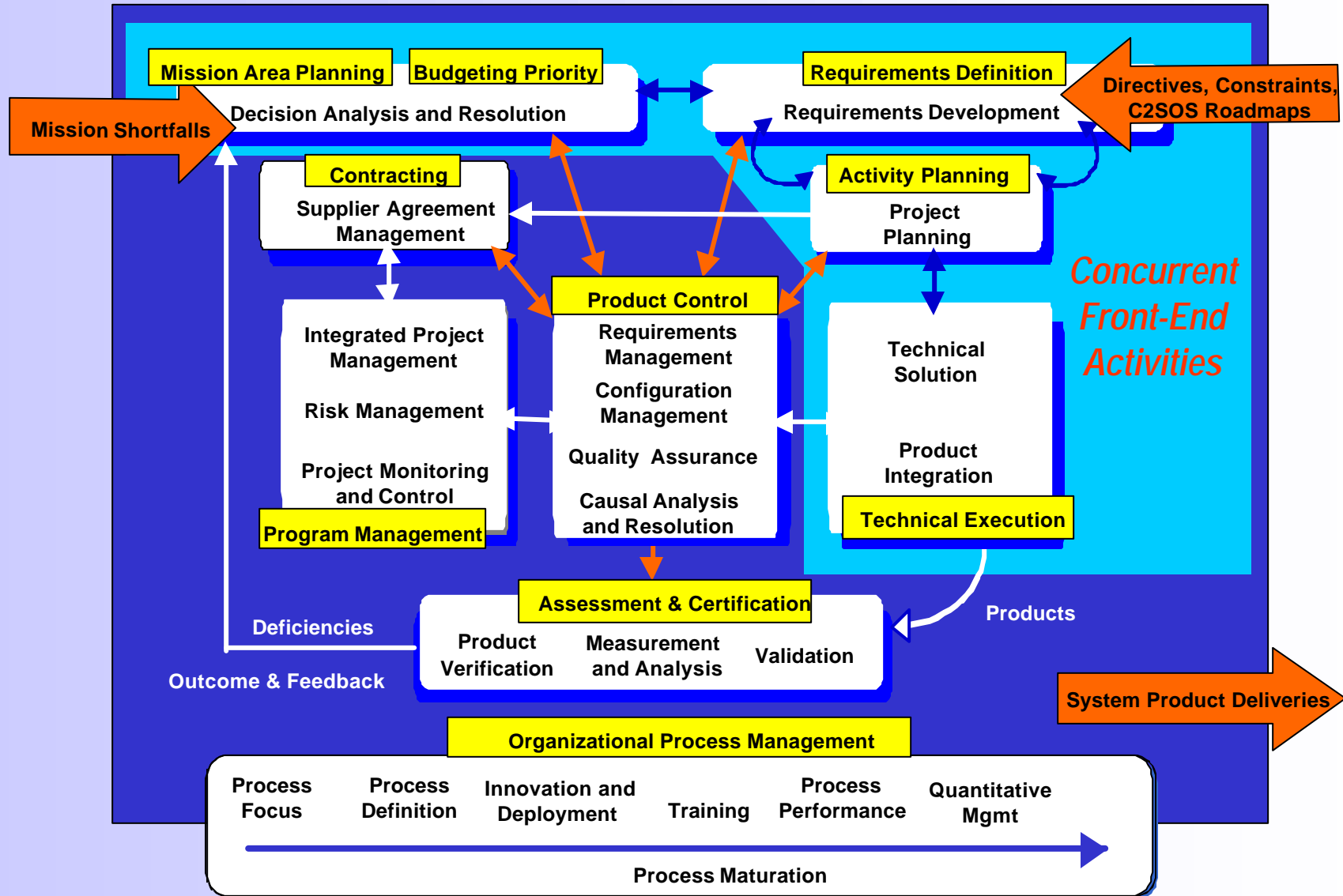
# An Enterprise Spiral Development Model



# An Enterprise and Life Cycle Focus Is Necessary



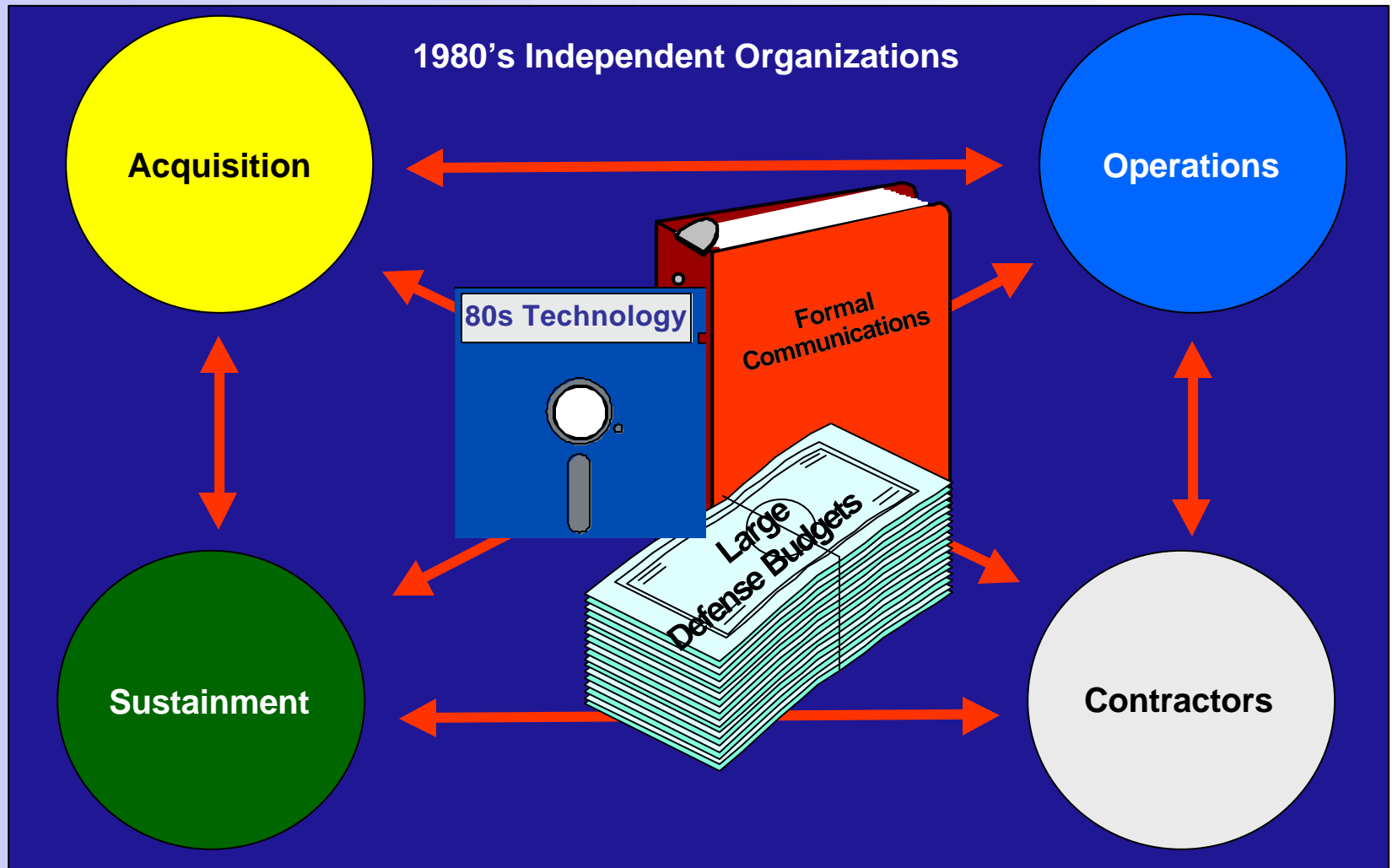
# How Does CMMI Fit Our Business Flow?



# Acquisition and the CMMI<sup>SM</sup>

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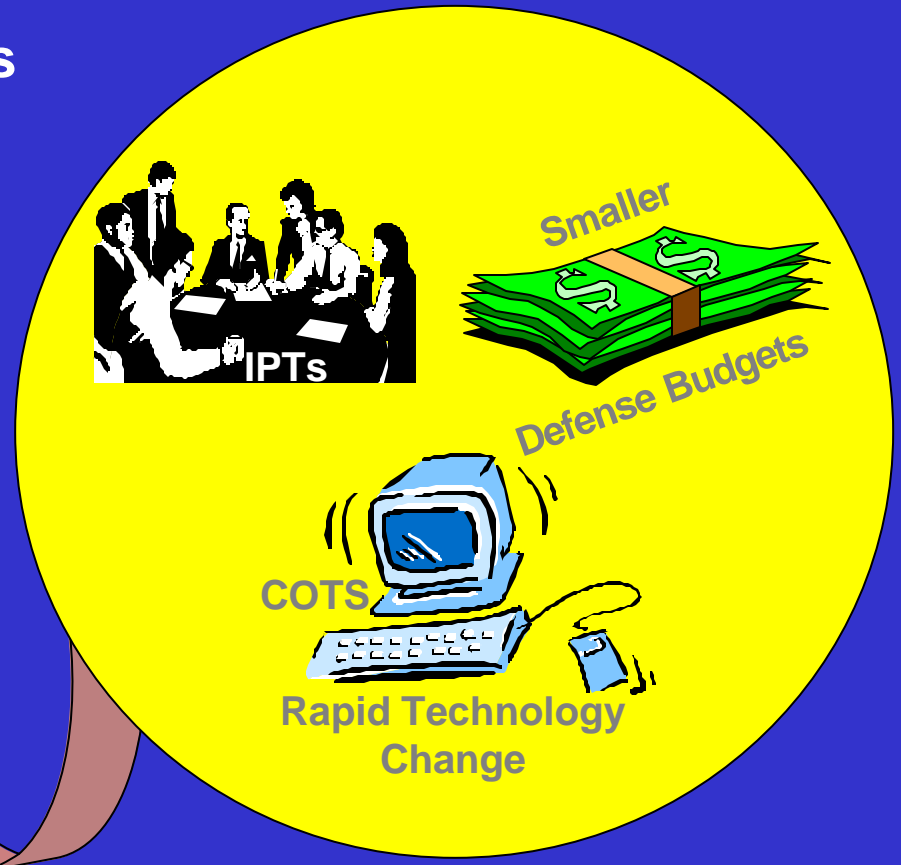
# Acquisition Environment - 1980s



# Acquisition Organizations - Today

## Impacts on 2000's Acquisition Organizations

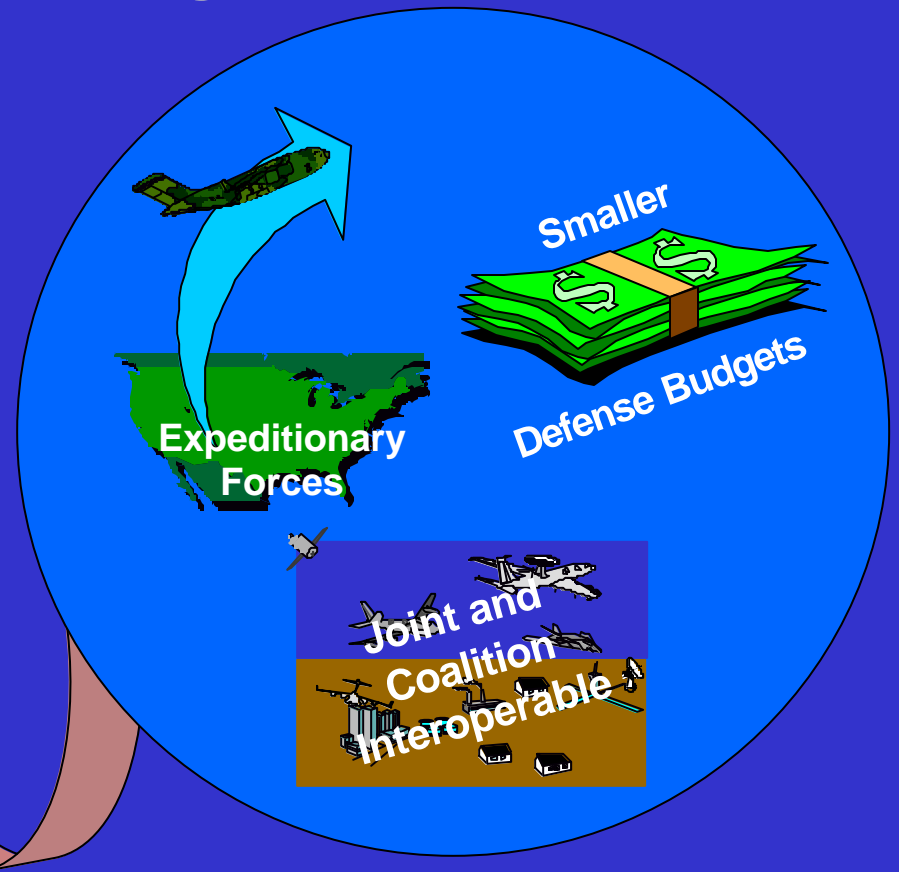
- System of System Demands
- Spiral Development
- Constant Initiative Flow
- Increased ACQTEMPO
- Outsourced Workforce
- Lifecycle Management
- Impatient Customers
- Acquisition Reform
- "TSPR" Contracts
- Experience Drain
- Smaller SPOs



# Operations Organizations - Today

## Impacts on 2000's Operations Organizations

- Smaller Force
- Coalition Operations
- Interoperable Systems
- Increased OPSTEMPO
- Changing Missions
- Changing Threats
- CONUS Based
- Global Commitments

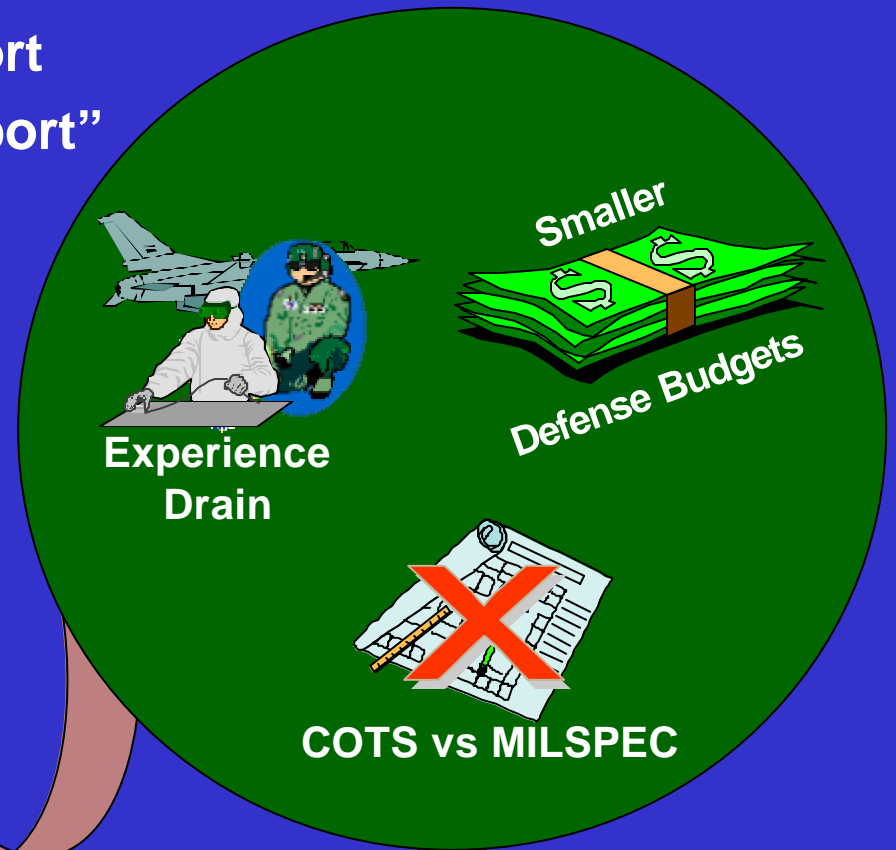




# Sustainment Organizations - Today

## Impacts on 2000's Sustainment Organizations

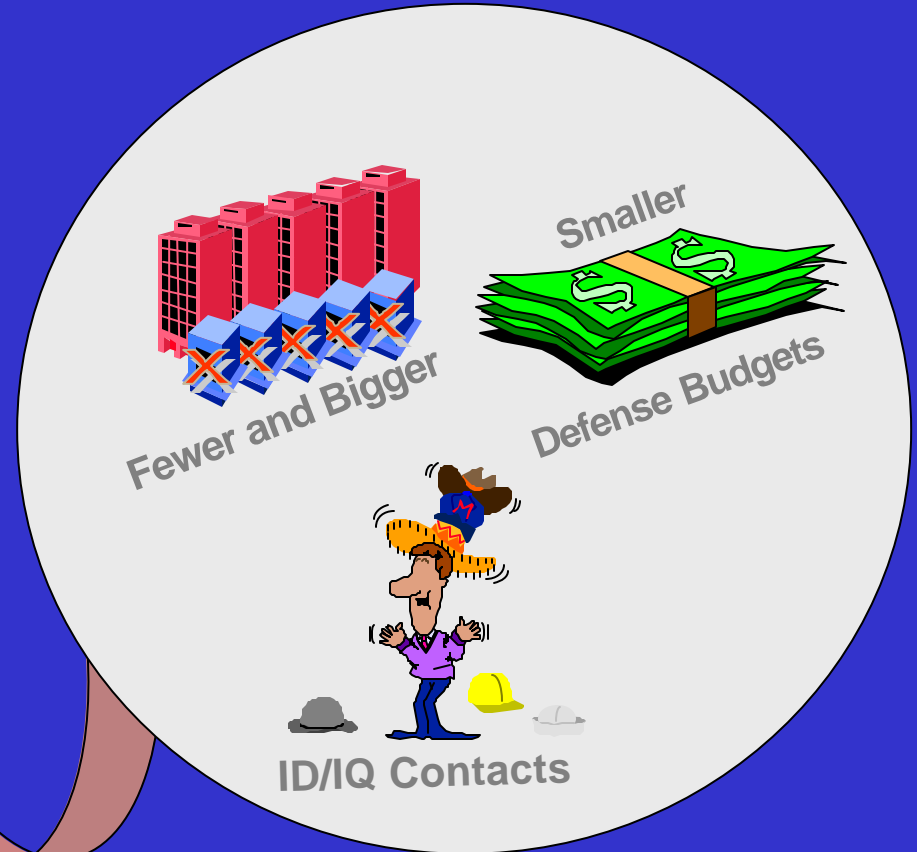
- Contractor Logistics Support
- Increased "Command Support"
- Lean Logistics
- Experience Drain
- Technology Pace
- Outsourced Work
- COTS vs MILSPEC
- Smaller Workforce
- Just-In-Time Supply



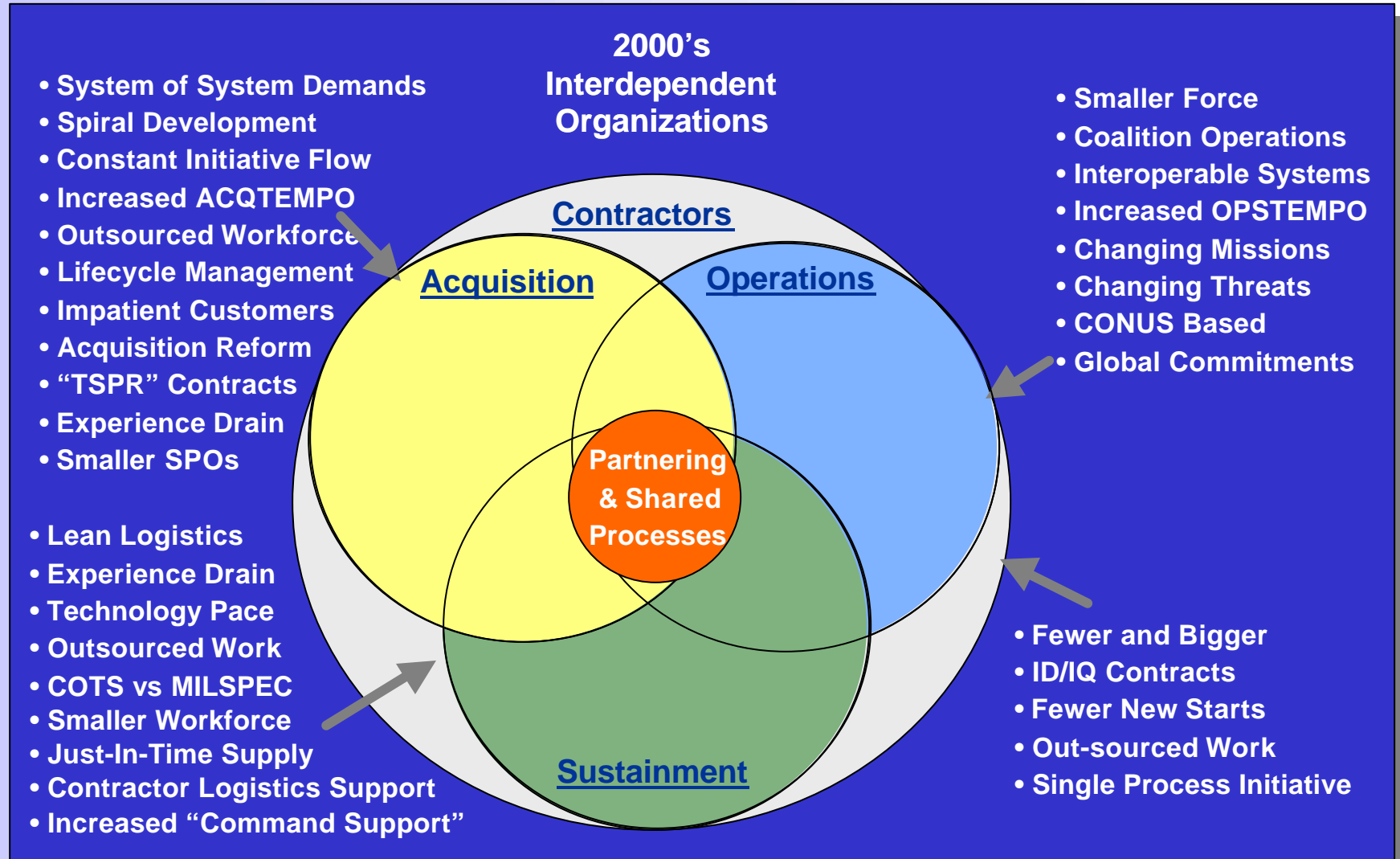
# Defense Contractors - Today

## Impacts on 2000's Defense Contractors

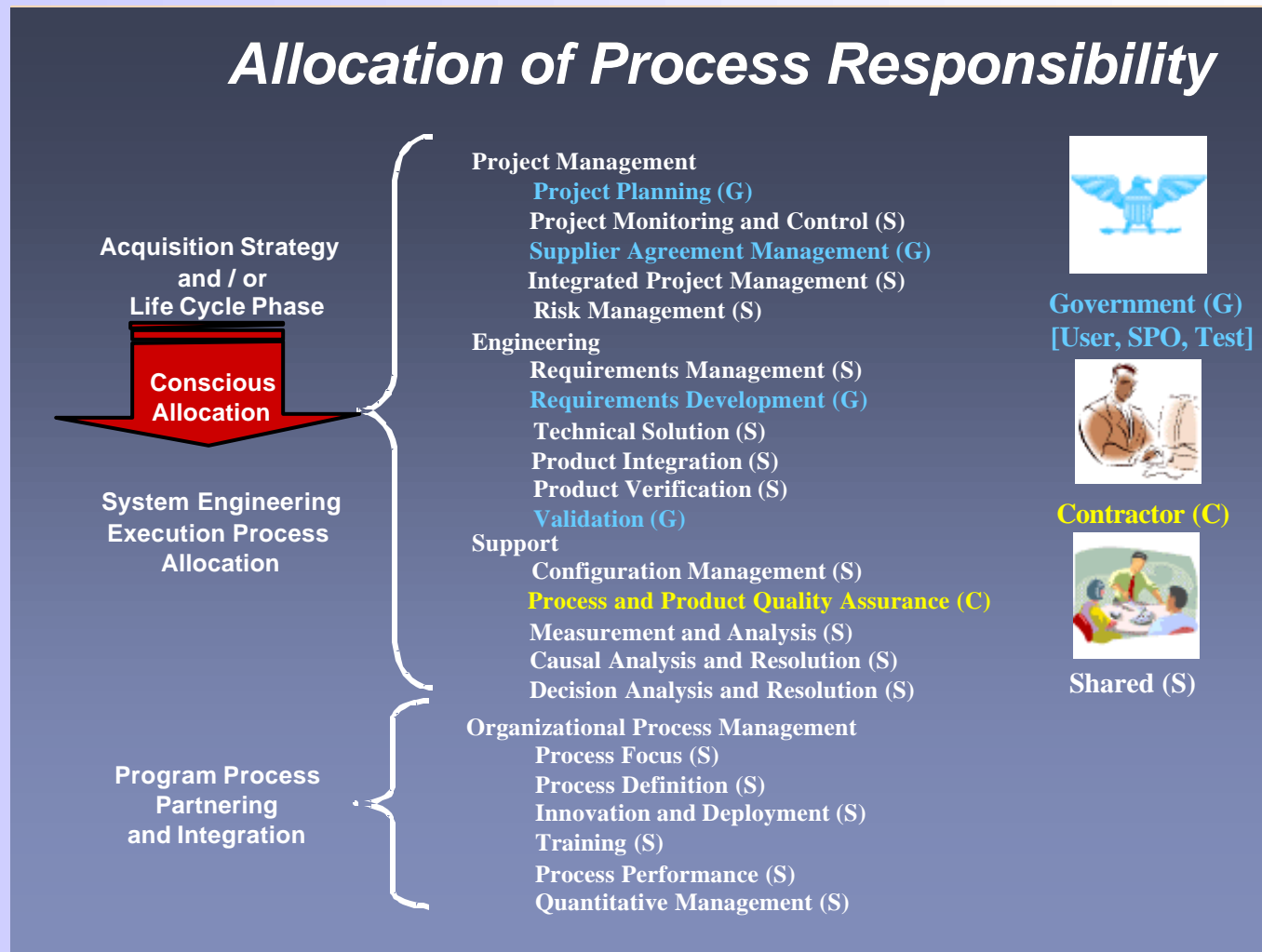
- Fewer and Bigger
- ID/IQ Contracts
- Fewer New Starts
- Out-sourced Work
- Single Process Initiative



# Acquisition Environment - Today



# Process Sharing and the CMMI



# Potential Process Sharing Benefits

- A common government - contractor framework
- Compatible capability levels (government too!)
- Integration of government and contractor processes
  - Insight with an understanding of contractor process
  - Concentrate on your process responsibilities
  - Tailor standard processes don't reinvent them
- An extension of the Single Process Initiative
- Spiral development drives repetitive process cycles
- Provides a life-cycle management process framework that extends beyond stakeholder organizational boundaries

# Questions?